

Work Order ID 61850

September 9, 2010 8:46:39 AM

Page 1

Item ID: D205-563-041

Accept

Revision ID:

Item Name: Cargo Mirror Assembly

Start Date: 9/08/10 Start Qty: 10.00

Required Date: 9/17/10 Req'd Qty: 10.00

Reference: ECN10-611

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D2161

Rev B2

100

0.00



DC

DOCUMENT CONTROL

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPPD205-563-041 CHG003

CHG004

8/20/10/28

Work Order ID 61850

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Item ID: D205-563-041

Accept



Setup Start



Revision ID:

Item Name: Cargo Mirror Assembly

Stop



Start Date: 9/08/10 Start Qty: 10.00



Cust Item ID:

Required Date: 9/17/10 Req'd Qty: 10.00



Customer:

Reference: ECN10-611

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept Reject Reject Insp.
Qty Qty Number Stamp

110

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

PULL FROM STOCK:

4 X D205-563-041 B51694

2 X D205-563-041 B57946

4 X D205-563-041 B60549

REWORK TO CHG 004 PER ECN10-611

REMOVE 2 X D2011-103 MIRROR RETURN TO STOCK, CHANGE TO 2 X

D3439-101 MIRROR B

REMOVE 4 X CCR264SS3-2 B &

2 X MS21059L3 B

FROM EACH KIT, AND RETURN TO STOCK

ADD TO EACH KIT:

4 X D4164-041 B

8 X MS20426AD3-4 B

0.00

120

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

Quality Control

8/10/10 30 SP

10/9/10 SP

100 SP

Work Order ID 61850



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Item ID: D205-563-041

Accept



Setup Start



Revision ID:

Item Name: Cargo Mirror Assembly

Stop



Start Date: 9/08/10 Start Qty: 10.00



Cust Item ID:

Required Date: 9/17/10 Req'd Qty: 10.00



Customer:

Reference: ECN10-611

Approvals: Process Plan: Date: Tooling: Date:

Run Start



QC: Date: SPC (Y/N): Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Packaging	0.00							
Packaging									
Packaging	<i>8/26/10</i> Memo RE-PACKAGE PER PPP USING NEW B/N NEW LABELS REQUIRED AT CHG004 NEW PAPERWORK REQUIRED TO RELECT CHANGE	0.00		<i>Box B</i>				<i>10/9/28</i>	<i>SL 10x</i>
140 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

10/09/28

MF 10-9-28

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY, ON, CANADA K6A 1K7				TC APPROVAL # 09-89 TEL: 1-613-632-5200	
P/N	D205-563-041	CHG	CHG003		
DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B60549	STC	SH975NE		
MODEL	Bell 205	STC			
MADE IN CANADA					

D2729-1

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY, ON, CANADA K6A 1K7				TC APPROVAL # 09-89 TEL: 1-613-632-5200	
P/N	D205-563-041	CHG	CHG003		
DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B60549	STC	SH975NE		
MODEL	Bell 205	STC			
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DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B60549	STC	SH975NE		
MODEL	Bell 205	STC			
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D2729-1

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P/N	D205-563-041	CHG	CHG003		
DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B60549	STC	SH975NE		
MODEL	Bell 205	STC			
MADE IN CANADA					

D2729-1

Picklist Print

September 9, 2010 8:46:37 AM

Page 1

Work Order ID: 61850

Parent Item: D205-563-041

Parent Item Name: Cargo Mirror Assembly



Start Date: 9/08/10

Required Date: 9/17/10

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:I Removed Manufacturing 05-11-01 JLM
AS PER ECN 10-611 10-09-07 JLM VERIFIED BY:DD
IPP REV:J

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
CCR264SS3-2 Rivet, Cherry		Purchased	No				Each	184.0000		-40			
<div> <div> <div>2</div> <div>A</div> </div> <div> <div>Not in kit</div> <div>mf</div> <div>10-9-29</div> </div> </div>													
				<u>Location</u>				<u>Loc Qty</u>	<u>Loc Code</u>				
				ST311				184					
					106578			45					
					108738			39					
					112314			100					
D205-563-041 Cargo Mirror Assembly		Manufactured	No				Each	13.0000		10		10/9/21 SL	
				<u>Location</u>				<u>Loc Qty</u>	<u>Loc Code</u>				
				FG				3					
					36467			2					
					44122			1					
				FG041				10					
					51694			4		4x			
					57946			2		4 2x			
					60549			4		4 2x			
D3439-101 Mirror Assembly 8"		Manufactured	No				Each	3.0000	2	20		10/9/21 SL	B61847 17xSL
				<u>Location</u>				<u>Loc Qty</u>	<u>Loc Code</u>				
				ST226				1					
					60512			1					
				ST228				2					
					60512			2					

Picklist Print

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Work Order ID: 61850

Parent Item: D205-563-041

Parent Item Name: Cargo Mirror Assembly

Start Date: 9/08/10

Required Date: 9/17/10

Start Qty: 10.00

Required Qty: 10.00

D4164-041 Manufactured No



Nut Plate Adapter Assembly

MS20426AD3-4 Purchased No



RIVET

MS21059L3 Purchased No



Nut Plate

D2011-103 Manufactured No



8" Mirror

Location

ST316

Loc Qty

6540

Loc Code

104374
110398

2540
4000

Each

37.0000



-20

Location

ST301

Loc Qty

37

Loc Code

114718

37

110

Each

26.0000



-20

Location

ST226

Loc Qty

26

Loc Code

58399

26

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Shop Packet Print

Page 2

List Lots

Page 1 of 1

September 8, 2010 9:02:47 AM

Criteria : Item ID: D205-563-041 All Locations All Warehouses All Quantity

Item ID	Warehouse ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt	Type Code	Comments
Item Name	Location ID				Lot Code		
D205-563-041	HONG KONG	36467	7/16/10	2.0000	QC21	CHG003	Paperwork not updated in HK
Cargo Mirror Assembly	FG						
	HONG KONG	44122	7/16/10	1.0000	QC21	CHG003	Paperwork not updated in HK
	FG						
	Main Warehouse	51694 ✓	7/16/10	4.0000	QC21	CHG003	
	FG041						
	Main Warehouse	57946 ✓	7/16/10	2.0000	QC21	CHG003	
	FG041						
	Main Warehouse	60549 ✓	7/16/10	4.0000	QC21	CHG003	
	FG041						

Total: 13.0000

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY, ON, CANADA K6A 1K7				TC APPROVAL # 09-89 TEL: 1-613-632-5200	
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DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B57946	STC	SH975NE		
MODEL	Bell 205	STC			
MADE IN CANADA					

DART Dart Aerospace Ltd. 1270 ABERDEEN ST. HAWKESBURY, ON, CANADA K6A 1K7				TC APPROVAL # 09-89 TEL: 1-613-632-5200	
P/N	D205-563-041	CHG	CHG003		
DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B57946	STC	SH975NE		
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LOT	B51694	STC	SH975NE		
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P/N	D205-563-041	CHG	CHG003		
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P/N	D205-563-041	CHG	CHG003		
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P/N	D205-563-041	CHG	CHG003		
DESC.	Cargo Mirror Assy	STC	SH92-16		
LOT	B51694	STC	SH975NE		
MODEL	Bell 205	STC			
MADE IN CANADA					

10/9/10

61850

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date: 10.08.26	Job No: 2010034	ADR Yes/No: NO	ADR Date: 10.08.26	ECN #: 10- 611
Product No.: D212-580		Created By: KB	Approved By: KB	
Product Name: Dual Cargo Mirror and LED Pulse Light Kit		Checked By: DS	General Manager Approval: NA	

Distribution	Reqd	Resp	Initial / Date
Production Manager / Coord.	Y	LL	
Purchasing Coord.	N		
Production Engineering Coord.	Y	JL	

Distribution	Reqd	Resp	Initial / Date
DQA / QA Coord.	N		
QC Coordinator	N		
Customer Technical Support	Y	DS	
Marketing	Y	SW	
Customer Order Processing	N		

Reason for Change:
Release new D212-580-043 Pulse Light Kit

Documents Affected:

DR-212-580 Rev. H MDL-D212-580 Rev. D CA-D212-580 Rev. 2 N-D212-580 Rev. D N-D212-580-1 Rev. A	IIN-D212-580-2 Rev. A D4078 Rev. B, D4079 Rev. B, D4081 Rev. A, D4164 Rev. A D212-580-901 Rev. A, D212-580-903 Rev. A SH92-16 Issue 4
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PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	N			
5	Update Master Document List (MDL)	Y	KB	MDL-D212-580 Rev. D	10.08.13 <i>KB</i>
6	Update Product Compatibility Matrix	N			
7	Create Eurocopter Form (FEE)	N			
8	Notify TC / FAA of Change	N			
9					

#	Document Control Actions	Reqd	Resp	Notes	Complete
0	Move Electronic Files	Y	KJ		
1	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ		10.09.07 <i>KB</i>
2	Update Approved/Preliminary PDF Files	Y	KJ		10.09.07 <i>KB</i>
3	Update Document Record (DR)	Y	KB	DR-D212-580 Rev. H	10.08.13 <i>KB</i>
4	Update Product Development Summary	Y	MP		
5	Update QSI 021 and/or STC Approval List	Y	KJ		10.09.07 <i>KB</i>
6	Update Parts / STC Database	Y	KJ		10.09.07 <i>KB</i>
7	Update / Verify ARC Database	Y	KJ		10.09.07 <i>KB</i>
8	Create / Update Change Record Form / Item Card Database	Y	KJ	See Below	10.09.07 <i>KB</i>
9	Create / Update PPP's	Y	KJ		10.09.07 <i>KB</i>
10	Update Document Control Database / Laminated Dwgs	N	KB		
11	Update Grey Project / Electronic Binder PDF Files	Y	KJ	Add ADR + All Engineering Documents	10.09.07 <i>KB</i>
12	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		10.09.07 <i>KB</i>
13					
14					

Description / Action:

D212-580-041 }
 D205-563-041 } Now at CHG 004 with change to D3439-101 Mirror (*Update Kits in Stock to CHG 004*)
 D204-562-041 }

D212-580-043 will be at CHG 001

Update BOM + Routings for D212-580-041 / D205-563-041 / D204-562-041 based on IIN-D212-580-1.

Ensure routings created for all parts on D4078 / D4079 / D4081 / D4164 and that routings reflect latest dwg revision.

Create / verify BOM + routings for D212-580-043 per IIN-D212-580-2.

Put small QTY of D212-580-043 in stock.

REFERENCE ONLY

ECN Verified & Complete: _____ Date: _____

25.4 WEIGHT AND BALANCE

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D204-562-041	5.0 lb	0 in	0 lb-in	3.80 in	19.0 in-lb
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	0.10 m	0.23 m-kg
D205-563-041	5.0 lb	0 in	0 lb-in	3.80 in	19.0 in-lb
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	0.10 m	0.23 m-kg
D212-580-041	5.0 lb	0 in	0 lb-in	-5.25 in	-26.3 in-lb
Dual Mirror Installation	2.3 kg	0 m	0 kg-m	-0.13 m	-0.30 m-kg

25.5 PARTS LIST

WAS

Qty 562 -041	Qty 563 -041	Qty 580 -041	Part Number	Description
X			D204-562-041	DUAL MIRROR INSTALLATION
	X		D205-563-041	DUAL MIRROR INSTALLATION
		X	D212-580-041	DUAL MIRROR INSTALLATION
2	2	2	D2011-103	MIRROR
1			D2161-204	MIRROR BRACKET
	1		D2161-205	MIRROR BRACKET
		1	D2161-212	MIRROR BRACKET
*2	*2	*2	D3015-3	LOCKNUT
*2	*2	*2	AN960JD516	WASHER
		4	CCR264SS-3-2	RIVET, BLIND
		2	MS21059L3	NUTPLATE
4	4	4	MS27039-1-08	SCREW

* PARTS ARE INCLUDED WITH D2011-103 MIRROR

REFERENCE ONLY

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25-00-00

4.0 PARTS LIST

Qty 562 -041	Qty 563 -041	Qty 580 -041	Part Number	Description
X			D204-562-041	DUAL MIRROR INSTALLATION
	X		D205-563-041	DUAL MIRROR INSTALLATION
		X	D212-580-041	DUAL MIRROR INSTALLATION
2 ✓	2 ✓	2 ✓	D3439-101	MIRROR (WAS D2011-103)
1 ✓			D2161-204 ✓	MIRROR BRACKET
	1 ✓		D2161-205 ✓	MIRROR BRACKET
		1 ✓	D2161-212 ✓	MIRROR BRACKET
*2	*2	*2	D3015-3	LOCKNUT
*2	*2	*2	AN960JD516	WASHER
		8 ✓	MS20426AD3-4 Add	RIVET, COUNTERSUNK
		4 ✓	D4164-041	NUT PLATE ASSEMBLY
4	4 ✓	4 ✓	MS27039-1-08	SCREW

* PARTS ARE INCLUDED WITH D3439-101 MIRROR

Add MS20426AD3-4 x 8
 Remove CER264SS-3 x 24
 MS20459L3 x 2

Done
 Jm

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 Revision: A
 Date: 10.07.20